Scientia Horticulturae, 54 (1993) 340–342
Elsevier Science Publishers B.V., Amsterdam

Contents of *Scientia Horticulturae*, Volume 54

VOL. 54 NO. 1 APRIL 1993

Soil water deficits reduce the elongation rate of emerging banana leaves but the night/day elongation ratio remains unchanged
H.P. Hoffmann (Carnarvon, WA, Australia) and D.W. Turner (Nedlands, WA, Australia) 1
Growth and mineral nutrition of pear rootstocks in lime soils
M. Tagliavini, D. Bassi and B. Marangoni (Bologna, Italy) 13
Nitrogen drawdown index as a predictor of nitrogen requirements for *Nephrolepis* in sawdust media
K.V. Sharman (Cleveland, Qld., Australia) and M. Whitehouse (Indooroopilly, Qld., Australia) 23
Long-term availability of manganese to plants in soil-less potting media
K.A. Handreck (Glen Osmond, S.A., Australia) 35
Involvement of activated charcoal in the modulation of abiotic and biotic ethylene levels in tissue cultures
A. Mensuali-Sodi, M. Panizza, G. Serra and F. Tognoni (Pisa, Italy) 49
Effect of type of cutting on heterogeneity and growth of *Rosa hybrida* cv. 'Motrea' and *Schefflera arboricola* cv. 'Compacta'
C.A.M. Marcelis-van Acker and K.J. Leutscher (Wageningen, Netherlands) 59
Effects of year-round supplementary lighting on shoot development, flowering and quality of two glasshouse rose cultivars
N. Bredmose (Aarslev, Denmark) 69

Book Review
Tea 87

VOL. 54 NO. 2 MAY 1993

The use of random amplified polymorphic DNAs to fingerprint apple genotypes
D.L. Mulcahy (Amherst, MA, USA), M. Cresti (Siena, Italy), S. Sansavini (Bologna, Italy), G.C. Douglas (Dublin, Eire), H.F. Linskens, G. Bergamini Mulcahy (Amherst, MA, USA), R. Vignani (Siena, Italy) and M. Pancaldi (Bologna, Italy) 89
Effect of pre-anthesis temperature on the size and shape of sweet pepper (*Capsicum annuum* L.) fruit
A.M. Ali (Shambat, Sudan) and W.C. Kelly (Ithaca, NY, USA) 97
Fruit growth and biomass allocation to the fruits in cucumber. 1. Effect of fruit load and temperature
L.F.M. Marcelis (Wageningen, Netherlands) 107

Fruit growth and biomass allocation to the fruits in cucumber. 2. Effect of irradiance
L.F.M. Marcelis (Wageningen, Netherlands) 123
Influence of sampling date and position in the tree on mineral nutrients, maturity and gel breakdown in cold stored 'Songold' plums
M.A. Taylor (Bellville, South Africa), E. Rabe (Stellenbosch, South Africa), M.C. Dodd (Bellville, South Africa) and G. Jacobs (Stellenbosch, South Africa) 131
Morphological study of the formation and development of basal shoots in roses
C.A.M. Marcelis-van Acker (Wageningen, Netherlands) 143
Adventitious shoot regeneration in carnation (*Dianthus caryophyllus* L.)
J. Messeguer, M.C. Arconada and E. Mele (Barcelona, Spain) 153
Changes in the buffering capacity of cell sap in senescing rose petals
Ph. Barthe (Nice, France) and V. Vaillant (Antibes, France) 165

Announcement 175

Announcement from the Publisher 176

Vol. 54 No. 3 June 1993

Spatial distribution of abscisic acid and 2-trans-abscisic acid in spears, buds, rhizomes and roots of asparagus (*Asparagus officinalis* L.)
K. Kojima, S. Kuraishi, N. Sakurai (Hiroshima, Japan), T. Itou (Higashi-Hiroshima, Japan) and K. Tsurusaki (Hiroshima, Japan) 177
Fruit maturity, storage and postharvest maturation treatments affect bell pepper (*Capsicum annuum* L.) seed quality
V.M. Sanchez, F.J. Sundstrom, G.N. McClure and N.S. Lang (Baton Rouge, LA, USA) 191
Characterization of seasonal fruit growth of 'Idared' apple
I. Schechter, J.T.A. Proctor (Guelph, Ont., Canada) and D.C. Elfving (Vineland Station, Ont., Canada) 203
Changes in postharvest quality of mangoes affected by preharvest application of calcium salts
B.P. Singh, D.K. Tandon and S.K. Kalra (Lucknow, India) 211
Somaclonal variation in *Begonia* × *elatior* and *Saintpaulia ionantha* L.
S. Mohan Jain (Espoo, Finland) 221
Effect of environment and applied chemicals on the flowering and form of Geraldton Wax (*Chamelaucium uncinatum* Schauer)
I.A. Dawson and R.W. King (Canberra, ACT, Australia) 233

Book Reviews
Plant Breeding Reviews 247
Medicinal Plants 250
Biology of the Grapevine 251

Announcement from the Publisher 253

Vol. 54 No. 4 July 1993

Photocontrol of *Dioscorea alanta* plantlet growth
J.L. John, W.H. Courtney and D.R. Decoteau (Clemson, SC, USA) 255

The effect of paclobutrazol on growth and yield during first year greenhouse strawberry production
T. Nishizawa (Tokyo, Japan) 267
Mycorrhizal fungi in relation to growth and mineral nutrition of apple seedlings
Z.Q. An, T. Shen and H.G. Wang (Beijing, People's Republic of China) 275
Lychee (*Litchi chinensis* Sonn.) pericarp desiccation and the importance of postharvest micro-cracking.
S.J.R. Underhill and D.H. Simons (Hamilton, Qld., Australia) 287
Effects of autumnal water stress on litchi flowering and yield in Israel
R.A. Stern (Rehovot, Israel), I. Adato, M. Goren (Bet Dagan, Israel), D. Eisenstein and S. Gazit (Rehovot, Israel) 295
Regeneration of *Camellia* plantlets from leaf explant cultures by embryogenesis and caulogenesis
M.C. San-Jose, and A.M. Vieitez (Santiago de Compostela, Spain.) 303
Abscission of flower peduncles in rose (*Rosa×hybrida*) plants
D.M. Goszczynska and N. Zieslin (Rehovot, Israel) 317
Influence of duration and placement of a high night temperature on morphogenesis of *Dendranthema grandiflora* Tzvelev.
H.E. Kresten Jensen (Aarslev, Denmark) 327

Author Index 337
Contents of *Scientia Horticulturae*, Volume 54 340
Announcement from the Publisher 343